

Division of Materials and Tests

TDOT Certification: Hot Mix Asphalt Certification Program

Course Title: Asphalt Concrete Plant Technician Course

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Course Description

A Certified Plant Technician should demonstrate a working knowledge of operations at a hot mix asphalt plant and the submittal of pertinent reports including an understanding of AASHTO / ASTM Test Methods and TDOT Specifications.

Scope of Course

The course covers plant setup, applicable forms, appropriate calculations, and the following AASHTO and ASTM Test Methods:

- AASHTO T 2 – Standard Practice of Sampling Aggregates
- AASHTO T 11 – Materials Finer Than No. 200 Sieve in Mineral Aggregates by Washing
- AASHTO T 27 - Sieve Analysis of Fine and Coarse Aggregates
- AASHTO T 30 - Mechanical Analysis of Extracted Aggregates
- AASHTO T 84 – Specific Gravity and Absorption of Fine Aggregate
- AASHTO T 85 – Specific Gravity and Absorption of Coarse Aggregate
- AASHTO T 164 – Quantitative Extraction of Bitumen from Bituminous Paving Mixtures
- AASHTO T 166 - Bulk Specific Gravity of Compacted Bituminous Mixtures Using Saturated Surface-Dry Specimens
- AASHTO T 168 – Sampling Bituminous Paving Mixtures
- AASHTO T 209 - Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
- AASHTO T 248 - Reducing Samples of Aggregate to Testing Size
- AASHTO T 255 - Total Moisture Content of Aggregate by Drying
- AASHTO T 308 - Determining the Asphalt Binder Content of Hot Mix Asphalt (HMA) by the Ignition Method
- * TDOT Test Method for Stripping (Ten Minute Boil Test)
- * TDOT Test Method for Coating
- * TDOT Test method for Glassy Particles in Slag
- * TDOT Test Method for Fractured Face Count for Marshall Mixes
- * TDOT Test Method for Loss on Ignition for Surface Mixes

Prerequisites

For TDOT employees, one year of service with TDOT and completion of Math 1, (skills through basic algebra)
Supervisor's approval and written recommendation
A general knowledge of asphalt plant operations
Familiarity with applicable TDOT Standard Specifications, Supplemental Specifications, and Special Provisions

Certification Requirements

TDOT will grant a 5 year certification only to those applicants who meet the following requirements:

- Attendance of the 5-day course in its entirety
- Successful completion of a 6 hour examination with a passing score of 70% or above. (The exam is OPEN BOOK and consists of true/false, multiple choice and word problems)
- Demonstration of his/her abilities to Regional Materials and Tests Personnel

Recertification Requirements

- Must attend a ½ day seminar/workshop for updates of any changes to specifications and test methods since certification
- The technician must re-demonstrate within one year of the ½ day seminar/workshop to maintain certification

Study Materials

An Asphalt Concrete Certified Plant Technician Manual is distributed at the beginning of the 5 day course. This manual contains all the information a technician will need to successfully complete his/her certification.

How to Register

NOTICES

- Cheating on any level of the exam **WILL NOT BE TOLERATED** and will result in immediate expulsion from the course and notification to superiors.
 - THE USE OF CELL PHONE CALCULATORS **WILL NOT** BE PERMITTED DURING EXAM
 - A VALID **PHOTO I.D. IS REQUIRED** UPON CHECK-IN